

92B/13

MEMORANDUM

TO Mr. H. I. Hunter, Chief
Hydrology Division
Water Investigations Branch

FROM J. C. Foweraker, Head
A. P. Kohut, Geological Engineer
Groundwater Section

May 3 1976

SUBJECT Well drilled for Norm Mitchell - Westholme
Section 2, Range 7

OUR FILE 0239013

YOUR FILE

The attached memo from Mr. Tradewell outlines the additional information we have on the well. Mr. Fred Chjowka will be taking a water sample for laboratory analyses and will be locating the actual well site during this week, on his scheduled and up-island trip to service the recorders.

A 3 to 7 day pumping test will be required during the summer months to adequately assess the long term yield of the well. The preliminary yield estimate would indicate a well capacity similar to our Chemainus test well completed for the Municipality. Whereas our test well is a shallow well (50 feet) completed in overburden, Mr. Mitchell's well is 350 feet deep in bedrock.

Referring to the attached map, we know Mr. Mitchell's well is located in Section 2, Range 7; this site lies immediately to the southeast of the Chemainus-Bonsall floodplain which is underlain by sand and gravel and appears to have considerable groundwater potential, (some wells have yields of 150 to 180 gallons per minute). There are therefore a number of potential well sites in the general area open to the Municipality for Crofton, etc., for future exploration and development if required. The Chemainus River test well which we recently completed and Mr. Mitchell's well are therefore only two of a number of sites with potential for further exploration and development. Further subsurface investigations (drilling and well testing) would be required to prove up the groundwater potential of this general area.

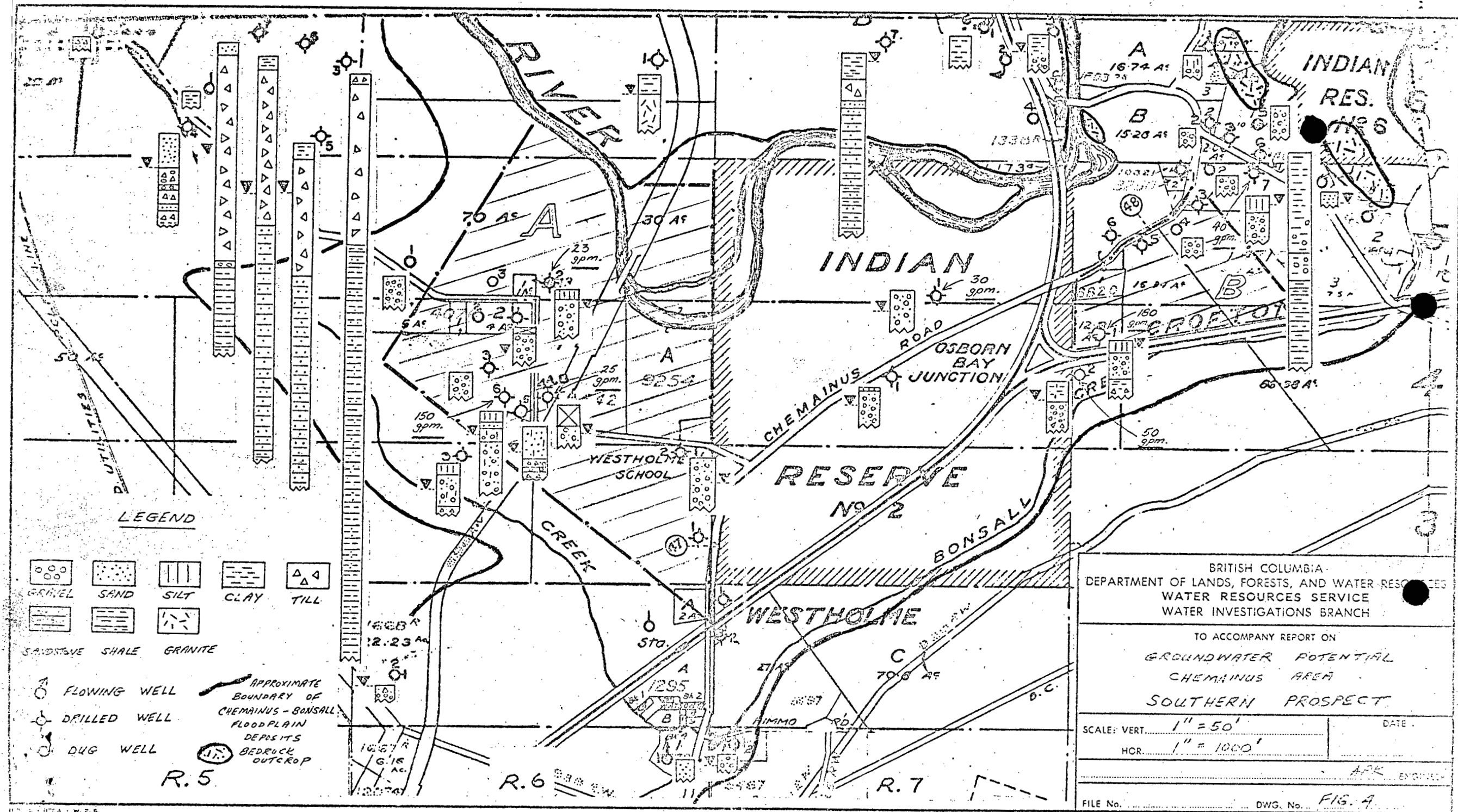
A. P. Kohut

A. P. Kohut

JCF/APK/dmc

c.c. Mr. Stu Mould

5/4/76



MEMORANDUM

TO J. C. Foweraker, Head
Groundwater Section
Hydrology Division
Water Investigations Branch

FROM Ernie Tradewell
Technician
Groundwater Section
April 30 1976

SUBJECT Well drilled for Norm Mitchell - Westholme
Section 2, Range 7

OUR FILE 0239013
YOUR FILE

In response to a request for information on the above well from P. M. Brady, I contacted Dogwood Drilling Ltd., and obtained the following data.

The well in question is 305 feet deep and the static water level is approximately 40 feet.

The drill log is as follows:

0 - 10	Clay till
10 - 16	Soft soapstone
16 - 19	Limestone
19 - 130	Soft limestone and soapstone with quartz lenses
130 - 290	Soft black and white granite
290 - 304	Black and white granite with limestone lenses
304 - 305	Large fault

The well was tested by air only and produced 50 gpm with only .5 foot drawdown.

In view of the above, it will be necessary to run a long term pump test to establish the true yield of the well. As with all rock wells a test of approximately one week duration would be required. The other problem is water quality. The water obtained from this well will certainly not be as "pure" as wells drilling in the surficial deposits. One would suspect from the log that the water may have a high total dissolved solids.

Ernie Tradewell

Ernie Tradewell

EHT/dmc